QC ABSTRACT

NAME OF WORK: Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	PCC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	40.5	8	8

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-06-30-78** **Date: 18-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-30-78** **Date: 18-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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M : 9972924528 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-30-78** **Date: 18-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2020-06-30-78 **Date: 18-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-30-78 **Date: 30/05/2020**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64

Customer's Reference : BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	23/05/2020	30/05/2020	149.11 X 150.32 X 150.40	22414	8.810	424.8	19.0	18.7
2	PCC	M20	23/05/2020	30/05/2020	150.73 X 149.46 X 149.91	22528	8.341	426.3	18.9	
3	PCC	M20	23/05/2020	30/05/2020	150.55 X 149.12 X 150.96	22450	8.514	411.9	18.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-30-78** **Date: 20/06/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	23/05/2020	20/06/2020	151.09 X 151.34 X 150.26	22867	8.269	542.0	23.7	23.3
2	PCC	M20	23/05/2020	20/06/2020	149.12 X 151.66 X 150.00	22615	8.715	504.8	22.3	
3	PCC	M20	23/05/2020	20/06/2020	151.95 X 150.04 X 150.05	22798	8.990	543.8	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-30-78 **Date: 30/05/2020**
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64

Customer's Reference : BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-05-20
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	23/05/2020	30/05/2020	149.35 X 151.18 X 149.42	22579	8.810	415.7	18.4	18.3
2	PCC	M20	23/05/2020	30/05/2020	149.76 X 151.25 X 150.31	22650	8.341	414.7	18.3	
3	PCC	M20	23/05/2020	30/05/2020	149.67 X 151.19 X 149.88	22627	8.514	409.4	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-06-30-78 **Date: 20/06/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	23/05/2020	20/06/2020	151.82 X 149.46 X 149.13	22690	8.269	525.8	23.2	23.1
2	PCC	M20	23/05/2020	20/06/2020	151.66 X 150.39 X 150.88	22808	8.715	509.9	22.4	
3	PCC	M20	23/05/2020	20/06/2020	149.78 X 150.88 X 151.04	22598	8.990	538.3	23.8	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2020

b ID	:	CP-2020-06-30-78
stomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ldress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
oject Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
gency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	PCC	M20	23/05/2020	30/05/2020	149.60 X 149.22 X 150.11	22323	8.810	414.7	18.6	18.6
2	PCC	M20	23/05/2020	30/05/2020	151.41 X 150.74 X 150.86	22823	8.341	424.1	18.6	
3	PCC	M20	23/05/2020	30/05/2020	151.73 X 150.75 X 149.45	22872	8.514	423.4	18.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2020-06-30-78 **Date: 20/06/2020**
omer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
dress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
oject Name	:	Construction of Rain Water Harvesting Pits and Toilets at Parks in Ward No:04
gency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	23/05/2020	20/06/2020	150.08 X 149.13 X 150.21	22382	8.269	525.8	23.5	22.9
2	PCC	M20	23/05/2020	20/06/2020	149.16 X 151.17 X 151.79	22547	8.715	496.1	22.0	
3	PCC	M20	23/05/2020	20/06/2020	149.88 X 150.16 X 149.19	22507	8.990	522.0	23.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig. Date BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES